## AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

1. (Currently Amended) A method for automatic system provisioning for an optical network by a network management system, the optical network comprising a plurality of network elements, the method comprising:

detecting a one of the plurality of network elements having new equipment to be provisioned in the optical network, the new equipment being of an equipment type;

automatically selecting a predefined default equipment template corresponding to the type of the new equipment, the selected predefined equipment template comprising a set of equipment parameters and associated predefined values; and

automatically provisioning the new equipment using the predefined values associated with the set of parameters contained in the default equipment template.

2. (Original) The method for automatic provisioning of claim

1, wherein the automatically selecting comprising selecting from a

set of predefined default equipment templates, the set of

predefined default equipment templates including at least one

default equipment template selected from the group consisting of DS3, DS1, OC3, OC48, OC12, and OC192 equipment templates.

3. (Original) The method for automatic provisioning of claim 1, further comprising:

automatically determining if there is a default equipment protection template corresponding to the equipment type;

automatically selecting a default equipment protection template corresponding to the equipment type of the new equipment, the selected default facility template comprising a set of equipment protection parameters and associated predefined values; and

automatically provisioning equipment protection for the new equipment using the predefined values associated with the set of equipment protection parameters contained in the corresponding default equipment protection template.

- 4. (Original) The method for automatic provisioning of claim 3, wherein the new equipment is one of equipment type DS1 and DS3.
- 5. (Original) The method for automatic provisioning of claim 1, further comprising:

automatically selecting a default facility template

corresponding to a facility of the new equipment, the selected default facility template comprising a set of facility parameters and associated predefined values; and

automatically provisioning the facility of the new equipment using the predefined values associated with the set of facility parameters contained in the corresponding default facility template.

- 6. (Currently Amended) The method for automatic provisioning of claim 1, wherein the detecting of the addition of the new equipment comprises receiving a notification transmission from one of the new equipment and a—the network element, in which the new equipment being part of the network element is implemented.
- 7. (Currently Amended) The method for automatic provisioning of claim 1, wherein the detecting of the addition of the new equipment comprises:

transmitting inventory requests to <a href="the-network">the network</a>;

receiving responses to the inventory requests from the network elements; and

comparing an equipment database of the network management system with the responses to detect new equipment to be

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provisioned.

8. (Currently Amended) A system for automatic system

provisioning for an optical network by a network management

system, comprising:

a network interface for receiving information from network

elements of the optical network; and

a processor configured to automatically detect a new

equipment to be provisioned in the optical network based on the

received information from the network elements, the new equipment

being of an equipment type, the processor is being further

configured to automatically select a predefined default equipment

template corresponding to the type of the new equipment, the

selected predefined equipment template comprising a set of

equipment parameters and associated predefined values,

wherein the processor is configured to automatically transmit

via the network interface the predefined values associated with

the set of parameters contained in the default equipment template

to automatically provision the new equipment.

9. (Original) The system for automatic provisioning of claim

8, wherein the processor is configured to automatically select the

template from a set of predefined default equipment templates, the

set of predefined default equipment templates including at least one default equipment template selected from the group consisting of DS3, DS1, OC3, OC48, OC12, and OC192 equipment templates.

10. (Currently Amended) The system for automatic provisioning of claim 8, wherein the processor is further configured to:

automatically determine if there is a default equipment protection template corresponding to the equipment type of the new equipment;  $\tau$ 

automatically select a default equipment protection template corresponding to the equipment type of the new equipment, the selected default <u>facility equipment protection</u> template comprising a set of equipment protection parameters and associated predefined values; and

automatically transmit via the network interface the predefined values associated with the set of equipment protection parameters contained in the default equipment protection template to automatically provision the new equipment.

11. (Original) The system for automatic provisioning of claim 10, wherein the new equipment is one of equipment type DS1 and DS3.

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12. (Original) The system for automatic provisioning of claim

8, wherein the processor is further configured to:

automatically select a default facility template

corresponding to a facility of the new equipment, the selected

default facility template comprising a set of facility parameters

and associated predefined values and

automatically transmit via the network interface the

predefined values associated with the set of facility parameters

contained in the corresponding default facility template to

provision the facility of the new equipment.

13. (Original) The system for automatic provisioning of claim

8, wherein the network interface is further configured to receive

a notification transmission from one of the new equipment and a

network element, the new equipment being part of the network

element.

14. (Currently Amended) The system for automatic provisioning

of claim 8, wherein the processor is further configured to:

transmit inventory requests to network elements of the

network via the network interface,

receive responses to the inventory request via the network

interface, and

compare an equipment database of the network management system with the responses to detect new equipment to be

provisioned.

15. (New) The method of claim 1, wherein the detecting is

performed in response to the new equipment being inserted in a

back plane slot of the detected network element.

16. (New) The method of claim 15, wherein the detected

network element is a trans-metro optical (TMO) switch and the new

equipment comprises at least one of the following: a tributary

card, a trunk card, and a cross-connect card.

17. (New) The system of claim 8, wherein the detected new

equipment is a card inserted into a back plane slot in one of the

network elements.

18. (New) The system of claim 17, wherein the one of the

network elements is a trans-metro optical (TMO) switch and the

inserted card comprises at least one of: a tributary card, a trunk

card, and a cross-connect card.